

Process for separating lipophilic constituents from aqueous colloid solutions for preparative purposes and/or for detecting an analyte in the aqueous phase

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Abstract of DE3118072

A process for removing fat-soluble constituents from aqueous colloidal solutions is described. The process is characterised advantageously in that the physicochemical and biological properties, in particular even of the amphiphilic colloids in the aqueous solution are retained. As a result they are accessible to a qualitative and quantitative biochemical analysis or further work-up. The extraction method is based on the use of mixtures of organic solvents containing a water-insoluble component, which has a surface tension < 25 dyn/cm, and a component having a low water solubility and a surface tension < 20 dyn/cm. The proportion of the water-insoluble component is 50 to 98% by volume of the solvent mixture. Characterisingly, in the liquid-liquid phase extraction from colloidal solutions of biological origin, even in the undiluted state of the aqueous sample - in contrast to extraction methods known hitherto - no intermediate phase is formed in which in particular colloidal analytes having amphiphilic properties are enriched in a precipitated and denatured state.

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